## **EAST Search History**

## **EAST Search History (Prior Art)**

| Ref# | Hits     | Search Query                                      | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|------|----------|---|---|---------------------|---------|---------------------|
| L1   | 19268847 | ((@rlad<="20021127")<br>(@ad<="20021127"))        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:32 |
| L2   | 10       | (spreading near3 code near3 reuse) same satellite | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:32 |
| L3   | 10       | L1 and L2   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:32 |
| L4   | 33       | (spreading near3 code near3 reuse) same beam      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:38 |
| L5   | 30       | 1 and 4   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:38 |
| L6   | 52       | (spreading near3 code near3 reuse) and satellite  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:39 |
| L7   | 39       | 1 and 6   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2010/03/13<br>14:39 |
| S1   | 19152526 | ((@rlad<="20021127")<br>(@ad<="20021127"))        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2008/02/14<br>10:14 |
| S2   | 258      | (multibeam near3 satellite)                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2008/02/14<br>10:19 |

| S3  | 970      | downlink near3 beam                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:19 |
|-----|----------|--|---|----|----|---------------------|
| S4  | 8234     | orthogonal near3 code                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:19 |
| S5  | 3        | S2 and S3 and S4                           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:19 |
| S6  | 1        | S1 and S5                                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:19 |
| S7  | 9        | S2 and S4                                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:21 |
| S8  | 6        | S1 and S7                                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:21 |
| S9  | 4003     | downlink with generat\$3                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:54 |
| S10 | 18       | S2 and S9                                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:55 |
| S11 | 14       | S1 and S10                                 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>10:55 |
| S12 | 19152526 | ((@rlad<="20021127")<br>(@ad<="20021127")) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>12:44 |
| S13 | 258      | (multibeam near3 satellite)                | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>12:44 |

| S14 | 12       | (multibeam near3 satellite) same<br>frame                  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>12:44 |
|-----|----------|--|---|----|----|---------------------|
| S15 | 67       | (multibeam near3 satellite) and frame                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>12:44 |
| S16 | 30       | (multibeam near3 satellite) and (frame same synchroniz\$5) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>12:58 |
| S17 | 19167641 | S12 amd S16  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>13:12 |
| S18 | 28       | S12 and S16  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/02/14<br>13:14 |
| S19 | 19156506 | ((@rlad<="20021127")<br>(@ad<="20021127"))                 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/04<br>08:58 |
| S20 | 259      | (multibeam near3 satellite)                                | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/04<br>09:33 |
| S21 | 4049     | downlink with generat\$3                                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/04<br>09:33 |
| S22 | 18       | S20 and S21  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/04<br>09:33 |
| S23 | 14       | S19 and S22  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/04<br>09:33 |
| S24 | 1        | 10/974661  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/03/04<br>12:57 |

| S25 | 19185380 | ((@rlad<="20021127")                                   | US-PGPUB;   | OR | ON | 2008/07/24          |
|-----|----------|--|---|----|----|---------------------|
|     | manamana | (@ad<="20021127"))                                     | USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB              |    |    | 12:29               |
| S26 | 17145    | ((spreading near3 code) (walsh<br>near3 code))         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:51 |
| S27 | 0        | ((psuedo near2 noise) with<br>(scrambling near3 code)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:51 |
| S28 | 78       | ((psuedo near2 noise near3<br>code))                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:52 |
| S29 | 8205     | ((psuedo near2 noise near3<br>code) (PN near3 code))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:52 |
| S30 | 3755     | S26 and S29  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:53 |
| S31 | 2683     | S26 same S29   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:53 |
| S32 | 2210     | S25 and S31  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:53 |
| S33 | 928      | (frames and symbols and (spread<br>near3 chip))        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:54 |
| S34 | 128      | S32 and S33  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>12:54 |
| S35 | 59       | S34 and satellite                                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/24<br>13:23 |

| S36         | 48       | S35 and synchroniz\$5                                | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM TDB | OR | ON | 2008/07/24<br>13:27 |
|-------------|----------|--|---|----|----|---------------------|
| <b>S</b> 37 | 17149    | ((spreading near3 code) (walsh<br>near3 code))       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>10:43 |
| S38         | 8206     | ((psuedo near2 noise near3<br>code) (PN near3 code)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>10:43 |
| S39         | 2683     | S37 same S38   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>10:43 |
| S40         | 928      | (frames and symbols and (spread<br>near3 chip))      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>10:43 |
| S41         | 19185530 | ((@rlad<="20021127")<br>(@ad<="20021127"))           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S42         | 19185530 | ((@rlad<="20021127")<br>(@ad<="20021127"))           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S43         | 17149    | ((spreading near3 code) (walsh<br>near3 code))       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S44         | 8206     | ((psuedo near2 noise near3<br>code) (PN near3 code)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S45         | 2683     | S43 same S44   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S46         | 2210     | S42 and S45  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |

| S47 | 928  | (frames and symbols and (spread                      | US-PGPUB;   | OR | ON | 2008/07/28          |
|-----|------|--|---|----|----|---------------------|
|     |      | near3 chip))   | USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB              |    |    | 11:47               |
| S48 | 128  | S46 and S47  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S49 | 59   | S48 and satellite                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S50 | 48   | S49 and synchroniz\$5                                | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:47 |
| S51 | 14   | S50 and beam   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>11:48 |
| S52 | 407  | (synchroniz\$5 same symbol same chip same frame)     | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>13:09 |
| S53 | 6    | S51 and S52  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>13:09 |
| S54 | 1162 | frequency near3 selective near3 fading near3 channel | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>14:34 |
| S55 | 4    | S51 and S54  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>14:35 |
| S56 | 325  | S54 and (pilot near3 signal)                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>14:37 |
| S57 | 158  | S56 and S41  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/28<br>14:37 |

| S58 | 48       | S57 and satellite   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;            | OR | ON | 2008/07/28<br>14:38 |
|-----|----------|---|---|----|----|---------------------|
| S59 | 28       | "6222828"   | IBM_TDB US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB     | OR | ON | 2008/07/29<br>10:29 |
| S60 | 19186124 | ((@rlad<="20021127")<br>(@ad<="20021127"))                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/29<br>10:31 |
| S61 | 1164     | frequency near3 selective near3 fading near3 channel              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/29<br>10:31 |
| S62 | 31281    | pilot near3 signals   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/29<br>10:32 |
| S63 | 16       | S61 same S62  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/29<br>10:32 |
| S64 | 2        | S60 and S63   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/07/29<br>10:40 |
| S65 | 43399    | lim.in.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/29<br>14:56 |
| S66 | 2335     | (electronic and telecommunication and research and institute).as. | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/29<br>14:56 |
| S67 | 12       | multibeam with satellite with packet                              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/29<br>14:57 |
| S68 | 3        | S65 and S67   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/01/29<br>14:57 |

| S69 | 0        | S66 and S67  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;                        | OR | ON | 2009/01/29<br>14:57 |
|-----|----------|--|---|----|----|---------------------|
|     | · ·      |  | DERWENT;<br>IBM_TDB                                       |    |    |                     |
| S70 | 19268847 | ((@rlad<= "20021127")<br>(@ad<= "20021127"))                             | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/12<br>22:45 |
| S71 | 1        | (spreading near3 code) same<br>less near3 beam                           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/12<br>22:49 |
| S72 | 35       | (spreading near3 code) same<br>reuse same pattern                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/12<br>22:51 |
| S73 | 22       | S70 and S72  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/12<br>22:51 |
| S74 | 9        | (satellite same multibeam) and<br>((spreading near3 code) same<br>reuse) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/12<br>22:52 |
| S75 | 5        | S70 and S74  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/12<br>22:52 |
| S76 | 2        | (satellite same multibeam) and ((spreading near3 code) same distance)    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:41 |
| S77 | 19268847 | ((@rlad<="20021127")<br>(@ad<="20021127"))                               | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:42 |
| S78 | 0        | S76 and S77  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:46 |
| S79 | 1        | (satellite same multibeam) same<br>(predetermined near3 distance)        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:47 |

| S80 | 0   | (satellite same multibeam) same<br>(reuse near3 pattern) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:51 |
|-----|-----|--|---|----|----|---------------------|
| S81 | 189 | (satellite) same (reuse near3 pattern)                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:51 |
| S82 | 140 | S77 and S81  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>13:51 |
| S83 | 91  | spreading near3 code near3<br>reuse                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>14:12 |
| S84 | 53  | S77 and S83  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>14:16 |
| S85 | 10  | (spreading near3 code near3 reuse) same satellite        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>14:23 |
| S86 | 10  | S77 and S85  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/03/13<br>14:23 |

## **EAST Search History (Interference)**

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## 3/13/2010 3:59:47 PM

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